

19

medium known in the art. An exemplary storage medium is coupled to the processor such the processor can read information from, and write information to, the storage medium. In the alternative, the storage medium may be integral to the processor. The processor and the storage medium may reside in an ASIC.

The previous description of the disclosed embodiments is provided to enable any person skilled in the art to make or use the present invention. Various modifications to these embodiments will be readily apparent to those skilled in the art, and the generic principles defined herein may be applied to other embodiments without departing from the spirit or scope of the invention. Thus, the present invention is not intended to be limited to the embodiments shown herein but is to be accorded the widest scope consistent with the principles and novel features disclosed herein.

What is claimed is:

1. At least one digital data storage media tangibly embodying a program of machine-readable instructions executable by a digital data processing apparatus to perform operations to manage an interactive display system including a touch-sensitive display, the operations comprising:

establishing a first image and at least one secondary images, each image representing various spatial coordinates, the spatial coordinates overlapping at least in part such that each image comprises an alternate depiction of subject matter common to all of the images;

presenting the first image upon the display;

responsive to prescribed user input including contact with the display, performing further operations comprising: updating imagery presented by the display to integrate a region of at least one of the secondary images into the display;

where each integrated region has substantially identical represented coordinates as a counterpart region of the first image;

where each point on the display continues to depict imagery corresponding to the same spatial coordinates regardless of which image is being shown;

where the updating operation comprises reducing visibility of the counterpart region of the first image, and substantially simultaneously increasing visibility of the integrated region of the secondary image.

2. The media of claim 1, where:

the operations further comprise sensing force exerted at each said contact site;

the reducing and increasing operations are conducted in proportion to the sensed force.

3. The media of claim 1, where:

the operations further comprising establishing size and shape of the integrated region by performing at least one of the following operations:

selecting a default area of fixed size and shape;

selecting an area of size and shape corresponding to a size and shape of the user contact;

varying the area in proportion to the size and shape of the user contact.

4. The media of claim 1, the operations further comprising: responsive to removal of said user contact, increasing visibility of the counterpart region of the first image and reducing visibility of the integrated region of the secondary image.

5. At least one digital data storage media tangibly embodying a program of machine-readable instructions executable by a digital data processing apparatus to perform operations to manage an interactive display system including a touch-sensitive display, the operations comprising:

20

establishing a first image and at least one secondary images, each image representing various spatial coordinates, the spatial coordinates overlapping at least in part such that each image comprises an alternate depiction of subject matter common to all of the images;

presenting the first image upon the display;

responsive to prescribed user input including contact with the display, performing further operations comprising:

updating imagery presented by the display to integrate a region of at least one of the secondary images into the display;

where each integrated region has substantially identical represented coordinates as a counterpart region of the first image;

where each point on the display continues to depict imagery corresponding to the same spatial coordinates regardless of which image is being shown;

where the updating operation comprises responsive to said user contact, defining a virtual window upon the display and reducing visibility of a region of the first image corresponding to the virtual window, and increasing visibility of the secondary image within the virtual window as if the secondary image were residing beneath the first image and aligned therewith according to their represented spatial coordinates.

6. At least one digital data storage media tangibly embodying a program of machine-readable instructions executable by a digital data processing apparatus to perform operations to manage an interactive display system including a touch-sensitive display, the operations comprising:

establishing a first image and at least one secondary images, each image representing various spatial coordinates, the spatial coordinates overlapping at least in part such that each image comprises an alternate depiction of subject matter common to all of the images;

presenting the first image upon the display;

responsive to prescribed user input including contact with the display, performing further operations comprising:

updating imagery presented by the display to integrate a region of at least one of the secondary images into the display;

where each integrated region has substantially identical represented coordinates as a counterpart region of the first image;

where each point on the display continues to depict imagery corresponding to the same spatial coordinates regardless of which image is being shown;

where the updating operation comprises responsive to said user contact, displaying a fade-out from a selected region of the first image coincident with a fade-in to a selected region of the secondary image, where the fade-out and fade-in are proportional to force of the user contact, and where the selected regions are coextensive according to their represented spatial coordinates.

7. At least one digital data storage media tangibly embodying a program of machine-readable instructions executable by a digital data processing apparatus to perform operations to manage an interactive display system including a touch-sensitive display, the operations comprising:

establishing a first image and at least one secondary images, each image representing various spatial coordinates, the spatial coordinates overlapping at least in part such that each image comprises an alternate depiction of subject matter common to all of the images;

presenting the first image upon the display;